

The Extensible Markup Language (XML) defines a way of marking up text to describe the structure of data. XML allows you to create your own markup language: you define the tags that give meaning to your data. XSLT is a way of transforming XML documents into other types of documents. XML Path Language (XPath) is used to identify parts of an XML document.

In this two-day course you will use the features of XSLT and XPath to develop stylesheets that convert XML documents to other XML, HTML, or text. The course begins with an introduction to commonly used tags such as template, apply-templates, and value-of. From there, you will learn how to use XPath nodetypes, axes, and predicates. Flow control and functions are covered next. Finally, you will learn some advanced XSLT features such as variables and parameters.

Course Objectives:

- Write XSLT stylesheets that produce HTML, XML, and text.
- Identify XML elements using XPath.
- Use XPath functions and predicates.
- Call specifically named templates.
- Sort data and use modes
- Use XPath string functions to manipulate string values.
- Create and format numbers in the result document.
- Use variables and parameters within a stylesheet.
- Import templates from other XSLT stylesheets.
- Define precedence of XSLT templates.

Audience: Developers who wish to transform XML documents into other XML documents, HTML or text using XSLT.

Prerequisites: Experience using XML.

Number of Days: 2 days

<p>1</p> <p>Course Introduction Course Objectives Course Overview Using the Workbook Suggested References</p>	<p>3</p>	<p>xsl:apply-templates xsl:output XPath Nodetypes XPath Expressions XPath Context XPath Location Steps Element and Root Nodes Text and Attribute Nodes Comment and Processing Instruction Nodes Namespace Nodes Wildcards Whitespace</p>
<p>2</p> <p>Introduction to XSLT Stylesheet, Source, and Result XSLT Processors Processor Implementations XPath Basics xsl:stylesheet xsl:template xsl:value-of</p>		

	Default Template Rules	9	Appendix – XSLT and XPath 2.0
4	XPath Axes and Predicates		New Features
	Location Paths and Location Steps		XSLT 2.0 Grouping Elements and Functions
	Peer Axis Types		User-Defined XSLT Functions
	More Peer Axis Types		Multiple Output and XHTML Documents
	Descendant Axis Types		Temporary Trees
	Ancestor Axis Types		Sequences
	Node Tests		Types
	Predicates		Stylesheets that are Schema-Aware
	Functions		Character Mapping
5	XSLT Flow Control		Regular Expressions
	xsl:if		
	xsl:choose		
	xsl:for-each		
	xsl:sort		
	Named Templates		
	Mode		
6	Generating Output with XSLT		
	Output Methods		
	HTML Output		
	Plain Text Output		
	XML Output		
	xsl:element and xsl:attribute		
	Attribute Value Templates		
	xsl:attribute-set		
	Text, Processing-Instructions, and Comments		
	Working with Namespaces		
7	Using XPath and XSLT Functions		
	XPath Datatypes and Functions		
	Node Test Functions		
	Node Set Functions		
	Boolean Functions		
	String Functions		
	Number Functions		
	The document() Function		
	xsl:key and the key() Function		
8	Advanced XSLT		
	Copying Elements		
	Numbering		
	Variables		
	Parameters		
	Using Other Stylesheets		
	apply-imports		
	Template Rule Conflicts		
	Extensions		